SEQUENCE LISTING

<110> Michael E. Mendelsohn

<120> METHOD FOR ASSAYING COMPOUNDS AFFECTING
     CELL DIVISION

<130> 00398/506001

<140> 09/352,570
<141> 1999-07-13

<160> 4

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 618
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (1)...(618)

<400> 1

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atg gcg ctg cag ctc tcc cgg gag cag gga atc acc ctg cgc ggg agc      48
Met Ala Leu Gln Leu Ser Arg Glu Gln Gly Ile Thr Leu Arg Gly Ser
 1               5                  10                  15


gcc gaa atc gtg gcc gag ttc ttc tca ttc ggc atc aac agc att tta      96
Ala Glu Ile Val Ala Glu Phe Phe Ser Phe Gly Ile Asn Ser Ile Leu
                20                  25                  30


tat cag cgt ggc ata tat cca tct gaa acc ttt act cga gtg cag aaa     144
Tyr Gln Arg Gly Ile Tyr Pro Ser Glu Thr Phe Thr Arg Val Gln Lys
            35                  40                  45


tac gga ctc acc ttg ctt gta act act gat ctt gag ctc ata aaa tac     192
Tyr Gly Leu Thr Leu Leu Val Thr Thr Asp Leu Glu Leu Ile Lys Tyr
        50                  55                  60


cta aat aat gtg gtg gaa caa ctg aaa gat tgg tta tac aag tgt tca     240
Leu Asn Asn Val Val Glu Gln Leu Lys Asp Trp Leu Tyr Lys Cys Ser
 65                  70                  75                  80


gtt cag aaa ctg gtt gta gtt atc tca aat att gaa agt ggt gag gtc     288
Val Gln Lys Leu Val Val Val Ile Ser Asn Ile Glu Ser Gly Glu Val
                85                  90                  95
```

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```
ctg gaa aga tgg cag ttt gat att gag tgt gac aag act gca aaa gat    336
Leu Glu Arg Trp Gln Phe Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp
            100                 105                 110

gac agt gca ccc aga gaa aag tct cag aaa gct atc cag gat gaa atc    384
Asp Ser Ala Pro Arg Glu Lys Ser Gln Lys Ala Ile Gln Asp Glu Ile
            115                 120                 125

cgt tca gtg atc aga cag atc aca gct acg gtg aca ttt ctg cca ctg    432
Arg Ser Val Ile Arg Gln Ile Thr Ala Thr Val Thr Phe Leu Pro Leu
        130                 135                 140

ttg gaa gtt tct tgt tca ttt gat ctg ctg att tat aca gac aaa gat    480
Leu Glu Val Ser Cys Ser Phe Asp Leu Leu Ile Tyr Thr Asp Lys Asp
145                 150                 155                 160

ttg gtt gta cct gaa aaa tgg gaa gag tcg gga cca cag ttt att acc    528
Leu Val Val Pro Glu Lys Trp Glu Glu Ser Gly Pro Gln Phe Ile Thr
                165                 170                 175

aat tct gag gaa gtg cgc ctt cgt tca ttt act act aca atc cac aaa    576
Asn Ser Glu Glu Val Arg Leu Arg Ser Phe Thr Thr Thr Ile His Lys
                180                 185                 190

gta aat agc atg gtg gcc tac aaa att cct gtc aat gac tga            618
Val Asn Ser Met Val Ala Tyr Lys Ile Pro Val Asn Asp *
            195                 200                 205


<210> 2
<211> 199
<212> PRT
<213> Homo sapiens

<400> 2
Arg Glu Gln Gly Ile Thr Leu Arg Gly Ser Ala Glu Ile Val Ala Glu
 1               5                   10                  15
Phe Phe Ser Phe Gly Ile Asn Ser Ile Leu Tyr Gln Arg Gly Ile Tyr
            20                  25                  30
Pro Ser Glu Thr Phe Thr Arg Val Gln Lys Tyr Gly Leu Thr Leu Leu
        35                  40                  45
Val Thr Thr Asp Leu Glu Leu Ile Lys Tyr Leu Asn Asn Val Val Glu
        50                  55                  60
Gln Leu Lys Asp Trp Leu Tyr Lys Cys Ser Val Gln Lys Leu Val Val
65                  70                  75                  80
Val Ile Ser Asn Ile Glu Ser Gly Glu Val Leu Glu Arg Trp Gln Phe
                85                  90                  95
Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp Asp Ser Ala Pro Arg Glu
            100                 105                 110
```

```
Lys Ser Gln Lys Ala Ile Gln Asp Glu Ile Arg Ser Val Ile Arg Gln
        115                 120                 125
Ile Thr Ala Thr Val Thr Phe Leu Pro Leu Leu Glu Val Ser Cys Ser
        130                 135                 140
Phe Asp Leu Leu Ile Tyr Thr Asp Lys Asp Leu Val Val Pro Glu Lys
145                     150                 155                 160
Trp Glu Glu Ser Gly Pro Gln Phe Ile Thr Asn Ser Glu Glu Val Arg
                165                 170                 175
Leu Arg Ser Phe Thr Thr Thr Ile His Lys Val Asn Ser Met Val Ala
                180                 185                 190
Tyr Lys Ile Pro Val Asn Asp
        195
```

```
<210> 3
<211> 600
<212> DNA
<213> Ovis aries

<220>
<221> CDS
<222> (1)...(600)

<400> 3
cgg gag caa ggc atc acc ttg cgc ggg agc gcc gag atc gtg gcc gag    48
Arg Glu Gln Gly Ile Thr Leu Arg Gly Ser Ala Glu Ile Val Ala Glu
 1               5                   10                  15

ttc ttc tca ttt ggt atc aac agt att tta tat cag cgt ggc ata tat    96
Phe Phe Ser Phe Gly Ile Asn Ser Ile Leu Tyr Gln Arg Gly Ile Tyr
                20                  25                  30

cca tcg gaa acc ttt act cga gtg cag aaa tat gga ctc acc ttg ctt   144
Pro Ser Glu Thr Phe Thr Arg Val Gln Lys Tyr Gly Leu Thr Leu Leu
            35                  40                  45

gta act act gat cct gag ctc ata aaa tac cta aat aat gtg gtg gat   192
Val Thr Thr Asp Pro Glu Leu Ile Lys Tyr Leu Asn Asn Val Val Asp
        50                  55                  60

caa cta aaa gaa tgg tta tac aag tgt tca gtt cag aaa ctg gtg gta   240
Gln Leu Lys Glu Trp Leu Tyr Lys Cys Ser Val Gln Lys Leu Val Val
65                  70                  75                  80

gtc atc tca aat att gaa agt gga gag gtc ctt gaa aga tgg cag ttt   288
Val Ile Ser Asn Ile Glu Ser Gly Glu Val Leu Glu Arg Trp Gln Phe
                85                  90                  95

gat att gag tgt gac aag act gca aaa gat gac agt gca ccc aga gaa   336
Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp Asp Ser Ala Pro Arg Glu
                100                 105                 110
```

-3-

```
aag tct cag aaa gct atc caa gat gaa atc cgt tca gtg atc aga cag    384
Lys Ser Gln Lys Ala Ile Gln Asp Glu Ile Arg Ser Val Ile Arg Gln
        115                 120                 125

atc aca gct aca gta aca ttt ctg cca ctg ttg gaa gtt tct tgt tca    432
Ile Thr Ala Thr Val Thr Phe Leu Pro Leu Leu Glu Val Ser Cys Ser
    130                 135                 140

ttt gat ctc ctc att tat aca gac aaa gat ctg gtt gta cct gag aaa    480
Phe Asp Leu Leu Ile Tyr Thr Asp Lys Asp Leu Val Val Pro Glu Lys
145                 150                 155                 160

tgg gaa gag tcc gga cca cag ttc att acc aat tct gaa gaa gtt cgt    528
Trp Glu Glu Ser Gly Pro Gln Phe Ile Thr Asn Ser Glu Glu Val Arg
                165                 170                 175

ctt cgt tca ttc act act aca att cac aaa gta aat agc atg gta gcc    576
Leu Arg Ser Phe Thr Thr Thr Ile His Lys Val Asn Ser Met Val Ala
            180                 185                 190

tac aaa att cct gtc cat gac tga                                    600
Tyr Lys Ile Pro Val His Asp  *
        195
```

```
<210> 4
<211> 199
<212> PRT
<213> Ovis aries

<400> 4
Arg Glu Gln Gly Ile Thr Leu Arg Gly Ser Ala Glu Ile Val Ala Glu
 1               5                   10                  15
Phe Phe Ser Phe Gly Ile Asn Ser Ile Leu Tyr Gln Arg Gly Ile Tyr
        20                  25                  30
Pro Ser Glu Thr Phe Thr Arg Val Gln Lys Tyr Gly Leu Thr Leu Leu
        35                  40                  45
Val Thr Thr Asp Pro Glu Leu Ile Lys Tyr Leu Asn Asn Val Val Asp
    50                  55                  60
Gln Leu Lys Glu Trp Leu Tyr Lys Cys Ser Val Gln Lys Leu Val Val
65                  70                  75                  80
Val Ile Ser Asn Ile Glu Ser Gly Glu Val Leu Glu Arg Trp Gln Phe
                85                  90                  95
Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp Asp Ser Ala Pro Arg Glu
                100                 105                 110
Lys Ser Gln Lys Ala Ile Gln Asp Glu Ile Arg Ser Val Ile Arg Gln
        115                 120                 125
Ile Thr Ala Thr Val Thr Phe Leu Pro Leu Leu Glu Val Ser Cys Ser
    130                 135                 140
Phe Asp Leu Leu Ile Tyr Thr Asp Lys Asp Leu Val Val Pro Glu Lys
```

```
145                    150                     155                    160
Trp Glu Glu Ser Gly Pro Gln Phe Ile Thr Asn Ser Glu Glu Val Arg
                165                     170                    175
Leu Arg Ser Phe Thr Thr Thr Ile His Lys Val Asn Ser Met Val Ala
                180                     185                    190
Tyr Lys Ile Pro Val His Asp
            195
```